



Morning of Day 1- May 24, 2016 OAI Auditorium:

Time	Details
8:00- 8:30 am	Coffee, juice and pastries
8:30- 8:35 am	Welcome & Opening Remarks Mary Jo Long-Davis, NASA
8:35- 8:45 am	Motivation and Objectives of Special Session on "Unsteady Flows" Jack Benek, AFRL
8:45- 9:15 am	Data analysis in high Reynolds number turbulent flows- experimental perspective Mo Samimy, The Ohio State University
9:15- 9:45 am	Unsteady data analysis techniques for CFD simulations, and data logistics Datta Gaitonde, The Ohio State University
9:45-10:00 am	BREAK
9:45-10:00 am 10:00-10:30 am	BREAK On Validation Issues for Unsteady Flows Bill Oberkampf, Consultant
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10:00-10:30 am	On Validation Issues for Unsteady Flows Bill Oberkampf, Consultant Analysis of unsteady simulations to inform turbulence modeling





Afternoon of Day 1- May 24, 2016 OAI Auditorium:

Time	Details
Real-time entry	Representative from Mondo-Brain company
1:00 – 1:30 pm	Statistical Techniques for unsteady data analysis John Doty, University of Dayton
1:30 – 2:00 pm	Application of wavelet analysis Jacques Lewalle & Pinqing Kan, Syracuse University
2:00 – 2:30 pm	How can efficient time intervals be established for numerical simulations Mori Mani, Boeing
2:30 -2:45 pm	BREAK
2:45 – 3:15 pm	Unsteady analysis using large computational datasets Nick Bisek, AFRL
3:15 – 4:15 pm	 What are the gaps in the state-of-the-art which are most important to the logistics and limitations associated with high performance computing architectures? How to close the gap between experiments (which can afford high temporal resolution and low spatial resolution) and simulations (which can typically afford high spatial resolution and lower temporal resolution)? [Tentative panel members include Bisek, DeBonis, Lewalle, Mani]
4:15-4:30 pm	WRAP-UP & ADJOURN
6:00 pm	No-Host Dinner at 100 th Bomb Group Restaurant 20920 Brookpark Road; Cleveland, OH 44135





Day 2- May 25, 2016 OAI Auditorium:

Time	Details
8:00 - 8:30 am	CHECK-IN and Coffee, juice, pastries
8:30 – 9:00 am	Ongoing AFRL Supersonic Inlet Integration Research Jon Tinapple, AFRL
9:00 – 9:30 am	High Speed Aerodynamics at AFOSR Ivett Leyva, Air Force Office of Scientific Research
9:30 –10:00 am	The Statistical Nature of Unsteady Inlet Flows Bernie Anderson, NASA Distinguished Research Associate
10:00-10:15 am	BREAK
10:15-10:45 am	LES and Tensor Analysis on Vortex Ring and Shock Interaction in Boundary Layer Chaoqun Liu, University of Texas at Arlington
10:45-11:15 am	Application of Hybrid RANS-LES to Unsteady Shock-Wave Boundary Layer Interactions in the Presence of a Surface Mounted Proturberance Kader Frendi & Phil Ligrani, University of Alabama in Huntsville
11:15-11:45 am	New Experimental Wind Tunnel Research Capabilities at UAH for Investigation of Shock-Wave-Boundary-Layer-Interactions Phil Ligrani & Kader Frendi, University of Alabama in Huntsville
Noon-1:00 pm	LUNCH in the OAI Sunroom
1:00 – 1:15 pm	Dimensional analysis on SWBLI flows in rectangular test sections Mark McQuilling, Saint Louis University
	Axisymmetric SWBLI validation experiment-request for input from CFD community Dave Davis, NASAA
1:15 – 1:45 pm	Use of Vortex Generators to Reduce Distortion for Mach 1.6 Streamline- Traced Supersonic Inlets Ezgihan Baydar and Frank Lu, University of Texas at Arlington, John Slater, Chuck Trefny and Dennis Yoder, NASA
1:45 – 2:15 pm	Shock train unsteadiness and dynamics Mirko Gamba, University of Michigan





2:15 – 2:45 pm	Miniaturized Parametric Inlet Bleed Module with Integrated Discretized
	Flow Control
	George Papdopoulos, Innoveering
2:45 – 3:00 pm	Day 2 Wrap-up and ADJOURN